MISSILE DEFENSE AGENCY
MDA In-depth
Making Ballistic Missile Defense A Reality...

Ballistic Missile Defense Fiscal Year 2004 Budget

Program Overview

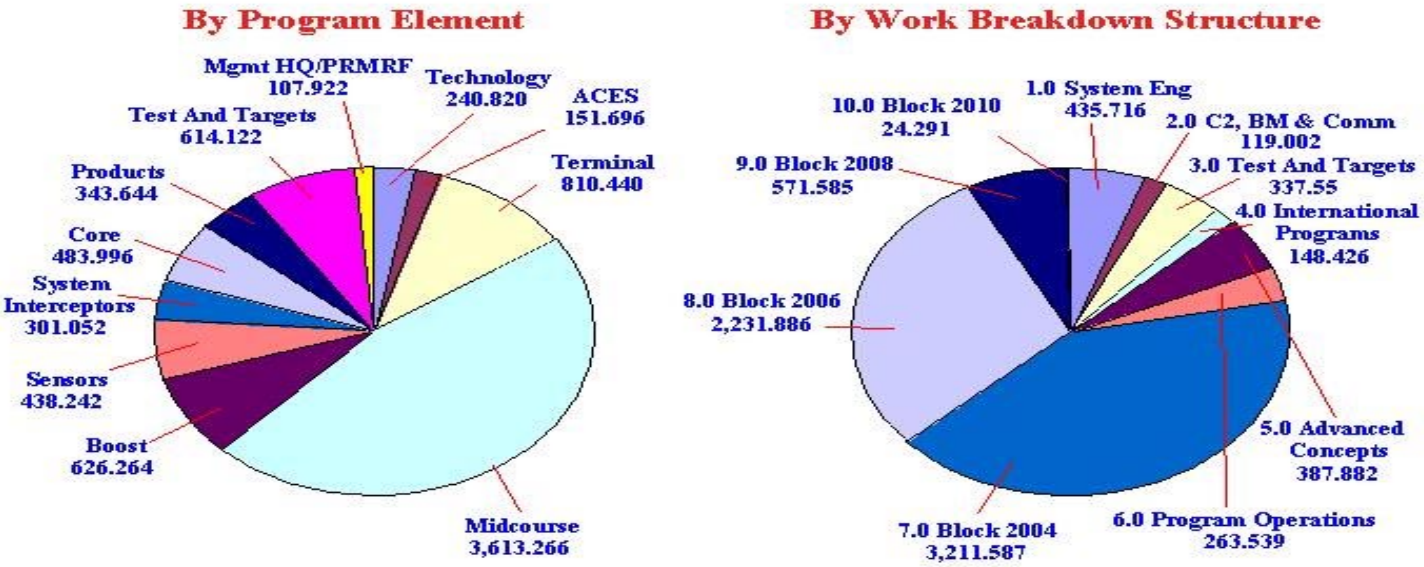
The Department of Defense (DoD) established a single program to develop an integrated Ballistic Missile Defense System (BMDS) under the Missile Defense Agency (MDA). Our goal is to defend the United States and its deployed forces, and friends and allies from ballistic missiles of all ranges in all phases of flight. To accomplish this goal, MDA is pursuing an aggressive Research, Development, Test & Evaluation (RDT&E) program. Additionally, in December 2002 the President directed DoD to begin fielding an integrated and evolutionary BMDS in support of an initial defensive operations capability. MDA will work with the Combatant Commanders and Services to procure and field elements of the overall BMDS as soon as practicable. The Agency employs a spiral development acquisition approach that capitalizes on advances in missile defense technology and adjusts to changes in external factors (e.g., threat, policy, and priorities) as appropriate.

While there is only a single BMDS, there is no final or fixed missile defense architecture. We are employing an evolutionary approach to missile defense development that is straightforward:

- Field an initial capability in 2004-05 in accordance with the President's direction;
- Add networked, forward-deployed ground-, sea-, and space-based sensors to make the interceptors more effective in 2006-07;
- Add interceptors;
- Add layers of increasingly capable weapons and sensors, made possible by emerging technologies.

The President's decision to implement this approach is possible due to a successful test program. During the past two years, we have achieved four long-range, ground-based intercepts; three ship-based exoatmospheric intercepts; five short-range, ground-based intercepts (PAC-3); and the first flight of the Airborne Laser (ABL) aircraft. A total of 55 flight tests of which 17 were intercept tests as well as 60 ground tests were conducted during this time period. Free from the constraints of the Anti-Ballistic Missile Treaty of 1972, MDA expanded its testing programs to include previously prohibited activities such as the testing of sea-based radars (Aegis SPY-1), Theater High Altitude Area Defense (THAAD) radar, and airborne sensors (Airborne Laser Infrared Search and Track sensor) against long-range targets. The FY 04 budget allows MDA to continue its robust testing.

FY O4 Budget Estimates



Budget Structure

The MDA budget is made up of two major funding appropriations: RDT&E and Military Construction (MILCON). The RDT&E budget funds all work to create new weapon system capabilities and improve existing capabilities. This includes applied research on advanced concepts and designing, engineering or testing prototypes.

Acquisition Strategy

MDA is following an evolutionary acquisition strategy for the BMD System that effectively manages changes in the threat, changes in BMD System technologies, and progress in development and testing. Using RDT&E resources almost exclusively and in conjunction with an evolutionary approach, the strategy capitalizes on technological progression and provides for development, limited production, and deployment of initial BMD capabilities incrementally as soon as they are ready. Adopting an evolutionary acquisition model, the BMD System is constructed around a "Capability-based Block" approach. Each BMDS Block spans a two-year timeframe and continuously builds capability into the BMD System by introducing new sensor and weapon projects, and/or by augmenting and enhancing existing capabilities. As the new projects mature they will be integrated into the BMD System to increase the capability to respond to the evolving threat. BMDS Block management includes decision points at which activities will be evaluated on the basis of effectiveness within the overall system, technical risk, deployment schedule, and cost. From these decision points, developmental activities will be accelerated, modified, or terminated depending on progress and promise.

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http://www.acq.osd.mil/bmdo/bmdolink/html/

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Procurement

	FY02	*FY03*	*FY04*
Patriot PAC-3 Procurement Program	729.579	488.241	0
Total Procurement	***729.579***	***488.241***	***0***

RDT&E

Ballistic Missile Defense Technology	145.021	151.130	240.820
Budget Activity 03 Total	***145.021***	***151.130***	***240.820***
MEADS Concepts Dem/Val	0	114.781	0
Advanced Concepts, Evaluations and Systems	0	0	151.696
Ballistic Missile Defense System Segment	790.535	1,046.652	0
Ballistic Missile Defense Terminal Defense Segment	195.800	136.399	810.440
Ballistic Missile Defense Midcourse Defense Segment	3,655.089	3,103.844	3,613.266
Ballistic Missile Defense Boost Defense Segment	583.463	718.036	626.264
Ballistic Missile Defense Sensors	312.973	350.436	438.242
Ballistic Missile Defense System Interceptors	0	0	301.052
Ballistic Missile Defense Test & Targets	0	0	611.522
Ballistic Missile Defense Products	0	0	343.644
Ballistic Missile Defense System Core	0	0	483.996
Budget Activity 04 Total	***5,537.860***	***5,470.148***	***7,380.122***
THAAD TMD - EMD	818.632	888.323	0
Patriot PAC-3 Theater Missile Defense Acquisition	130.630	176.155	0
Navy Area Theater Missile Defense - EMD	96.121	0	0
Budget Activity 05 Total	***1,045.383***	***1,064.478***	***0***
Small Business Innovative Research - MDA	145.102	0	0
Pentagon Reservation	6.381	7.432	14.481
Management Headquarters - MDA	30.191	25.365	93.441
Budget Activity 06 Total	***181.674***	***32.797***	***107.922***
Total RDT&E	***6,909.938***	***6,718.553***	***7,728.864***

MILCON

Ballistic Missile Defense System	7.419	0	0
Ballistic Missile Defense Test & Targets	0	0	2.600
THAAD TMD - EMD/ BMD Terminal Defense Segment	0.750	23.400	0
Total MILCON	***8.169***	***23.400***	***2.600***
Total MDA Program	**7,647.686**	**7,230.194**	**7,731.464**